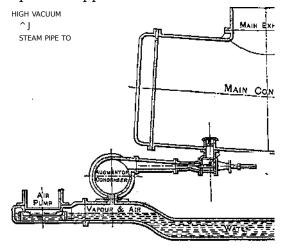
vacuum augmentor has been much employed, as shown in fig. 25. The condenser is inclined slightly so as to facilitate the fall of the water of con-

densation to the lower outlet, which is formed into a sunk trap as shown. Near the other end of the main condenser an air outlet is provided, and the air is propelled by means of a small steam ejector through a special supple-



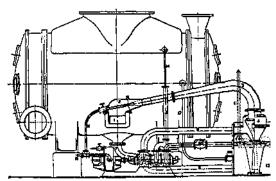


Fig. 25.—Parsons Vacuum Augmentor

mentary auxiliary condenser and delivered to the air-pump beyond the

sunk water-trap. Thus the airpump takes air already somewhat increased

in density above the condenser pressure, and its efficiency and capacity thus improved. Thus, with a condenser vacuum of 27^{to 28} in. the vacuum at the air-pump 26 only The may be in. tube surface of the one-twentieth that is of the and the steam consumption is said to be 0-6 per cent of the main consumption, while the vacuum is f proved to with i in., steam turbines equivalent to perhaps 4 to 5 per cent *•-*&~**Air-pumps

of the main power.

In the air-pump system adopted by the Contraflo Condenser and Kinetic

Air-pump Co., Ltd.," a steam ejector is used to draw the air and vapour

from the condenser, and to discharge it at a higher pressure into a hydraulic ejector, from which it is finally discharged to the atmosphere. The arrange-

ment and working of the different parts of this kinetic air-pump system

may be followed by reference to the sectional illustration shown in fig. 26.